

ATT 34 AMEND

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Amended Claims:

- 1 1. An article attachment system for a vehicle, comprising:
2 an elongated rail member adapted to attach to the vehicle;
3 the rail member defining at least one partially enclosed space having at
4 least one slide interface along an interior surface of the rail member and a plurality of
5 projections;
6 a bracket having at least one glide slidably engaging the slide interface
7 on the interior surface of the elongated rail member and adapted for mounting at least
8 one article;
9 a positioning device operably engaging the bracket and having at least
10 one extension adapted to move between an engaged position adapted for securing the
11 article to the elongated rail member and a released position adapted for moving the
12 article relative to the elongated rail member.
- 1 2. The article attachment system of Claim 1, wherein the elongated rail
2 member is oriented longitudinally within the vehicle.
- 1 3. The article attachment system of Claim 1, wherein the elongated rail
2 member is oriented laterally within the vehicle.
- 1 4. The article attachment system of Claim 1, wherein the elongated rail
2 member is adapted to attach to an external portion of the vehicle.
- 1 5. The article attachment system of Claim 1, wherein the elongated rail
2 member is adapted to attach to an interior portion of the vehicle.
- 1 6. The article attachment system of Claim 1, wherein the elongated rail
2 member extends to a forward position adapted to allow the article to nest with an
3 instrument panel in the vehicle.
- 1 7. The article attachment system of Claim 1, wherein the elongated rail
2 member is at least one rail segment adapted to be selectively coupled and uncoupled
3 to another rail segment.

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1 8. The article attachment system of Claim 1, wherein the elongated rail
2 member and bracket are configured to vertically restrain the article.

1 9. The article attachment system of Claim 1, wherein the elongated rail
2 member includes a fixed conductor strip adapted to deliver electrical power to the
3 article.

1 10. The article attachment system of Claim 9, wherein the conductor strip
2 is coupled to the rail member by a carrier having at least one tolerance adjusting
3 device.

1 11. The article attachment system of Claim 9, wherein the bracket includes
2 a contact biased for sliding engagement with the conductor strip.

1 12. The article attachment system of Claim 1, wherein the at least one
2 glide is two glides.

1 13. The article attachment system of Claim 12, wherein the glide is a low-
2 friction, high-lubricity material.

1 14. The article attachment system of Claim 1, wherein the bracket further
2 comprises runners operably engaging the slide interface.

1 15. The article attachment system of Claim 1, wherein the slide interface
2 further comprises a lateral positioning device.

1 16. The article attachment system of Claim 1, further comprising a trim
2 piece coupled to the elongated rail member.

1 17. The article attachment system of Claim 1, wherein the elongated rail
2 member is adapted to removably receive the article.

1 18. The article attachment system of Claim 1, wherein the article is one of
2 a center console, a storage bin, a compartment, a cargo management device, a holder,
3 an article mounting bracket, a storage rack, a child safety seat, a jump seat, a storage
4 platform, a table, a recreational item, or a sporting good.

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1 19. The article attachment system of Claim 1, wherein the positioning
2 device is biased in a self-correcting direction.

1 20. The article attachment system of Claim 1, wherein the positioning
2 device includes an actuator capable of remote actuation and operable to move the
3 extension between the engaged position and the released position.

1 21. A sliding floor console system for a vehicle interior, comprising:
2 an elongated rail member coupled to a floor portion of the vehicle
3 interior;
4 the elongated rail member having a first electrical conductor and
5 defining at least one partially concealed channel having a slide interface;
6 a bracket adapted to couple to a console, the bracket having at least one
7 non-rotational glide slidably engaging the slide interface for longitudinal movement
8 along the elongated rail member and a second electrical conductor configured to
9 movably engage the first electrical conductor; and
10 a positioning device coupled to the bracket for selectively securing the
11 console at one of a plurality of locations along the elongated rail member.

1 22. The article attachment system of Claim 21, wherein the elongated rail
2 member includes a plurality of positioning elements.

1 23. The article attachment system of Claim 21, wherein the positioning
2 device includes an actuator adapted for remote actuation from the article.

1 24. The article attachment system of Claim 21, wherein the elongated rail
2 member includes at least one lateral extension portion.

1 25. The article attachment system of Claim 21, wherein the elongated rail
2 member is integrally formed with the floor portion.

1 26. The article attachment system of Claim 21, wherein the elongated rail
2 member includes an end piece adapted to limit the position of the article.

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1 27. The article attachment system of Claim 21, wherein the positioning
2 device includes at least one locking member operably engaging the actuator for
3 extension and retraction in a lateral direction.

1 28. The article attachment system of Claim 27, wherein the bracket and the
2 positioning device coact through a biasing device.

1 29. The article attachment system of Claim 28, wherein the biasing device
2 is a spring.

1 30. The article attachment system of Claim 29, wherein the biasing device
2 provides a self-correcting interaction between the locking member and the elongated
3 rail member.

1 31. The article attachment system of Claim 21, wherein the glide is
2 configured for coupling to the bracket only in a single orientation.

1 32. An article attachment system, comprising:
2 a rail member adapted for attachment to a vehicle, the rail defining at
3 least one partially enclosed space having at least one surface adapted for slideable
4 engagement;
5 a bracket member adapted to couple to an article and adapted to
6 slideably engage the surface;
7 an electrification system configured to provide a source of electricity
8 from the rail member to the article;
9 a positioning device adapted to releasably secure the article in any one
10 of a plurality of locations on the rail member; and
11 an actuator adapted to move the positioning device between an
12 engaged position where movement of the article is prevented and a released position
13 where movement of the article is permitted.

1 33. The system of Claim 32, wherein the rail member includes a plurality
2 of projections disposed within the partially enclosed space.

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1 34. The system of Claim 33, wherein the rail member includes a plurality
2 of projections only on a single side of the rail member.

1 35. The system of Claim 32, further comprising a glide member adapted to
2 interface between the bracket and the surface.

1 36. The system of Claim 32, wherein the glide member is non-rotational.

1 37. The system of Claim 32, wherein the electrification system further
2 comprises a conductive strip coupled to the rail member.

1 38. The system of Claim 32, further comprising an end piece adapted to
2 couple to an end of the rail member.

1 39. The system of Claim 32, further comprising a biasing device adapted
2 to bias the positioning device in a self-correcting direction.

1 40. The system of Claim 32, wherein the article is one of a storage bin, a
2 compartment, a cargo management device, a holder, an article mounting bracket, a
3 storage rack, an article carrier, a child safety seat, a jump seat, a storage platform, a
4 table, a recreational item, or a sporting good.

1 41. The system of Claim 32, wherein the rail member is a plurality of rail
2 member segments adapted to be selectively coupled and uncoupled.

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1 42. A method of providing a sliding console system for use in a vehicle
2 interior, the method comprising:
3 providing a rail member adapted for coupling to the vehicle, the rail
4 member defining a partially enclosed space having a slide surface;
5 providing a bracket at least partially surrounding the rail member and
6 adapted to receive a console;
7 providing at least one arm extending from the bracket into the partially
8 enclosed space, the arm including a glide adapted to engage the slide surface;
9 coupling a positioning device to the bracket, the positioning device
10 adapted for movement between an engaged position where the positioning device
11 engages the rail member and a released position where the positioning device is
12 substantially free of engagement from the rail member; and
13 coupling the console to the rail member.

1 43. The method of Claim 42, wherein the slide surface provides a slideable
2 interface with the glide.

1 44. The method of Claim 42, wherein the slide surface provides a non-
2 rotational interface with the bracket.

1 45. The method of Claim 42, wherein the slide surface provides a fixed
2 interface with the bracket.

1 46. The method of Claim 42, further comprising the step of providing a
2 biasing device adapted to urge the positioning device into the engaged position.

1 47. The method of Claim 42, further comprising the step of providing a
2 trim portion adapted to couple to the rail member.

1 48. The method of Claim 42, further comprising the step of providing an
2 actuator adapted to move the positioning device between the engaged position and the
3 released position.

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1 49. The method of Claim 42, further comprising the step of providing an
2 electrification system adapted to couple to the rail member for providing electricity
3 from a vehicle electricity source to the article.

1 50. A system for movably attaching one or more articles to a vehicle
2 portion, comprising:
3 an elongated rail member configured for attachment to the vehicle and
4 having at least one lateral extension projecting at least partially over a slide surface to
5 form a space that is at least partially concealed;
6 a bracket at least partially surrounding the elongated rail member and
7 lateral extension and having an arm projecting into the space;
8 an article coupled to the bracket; and
9 a non-rotational low friction member interfacing between the arm and
10 the slide surface configured to permit movement of the article along the elongated rail
11 member.

1 51. The system of Claim 50, wherein the vehicle portion is a vehicle
2 interior portion.

1 52. The system of Claim 50, wherein the vehicle portion is a vehicle
2 exterior portion.

1 53. The system of Claim 52, wherein the vehicle exterior portion is a cargo
2 storage area.

1 54. The system of Claim 50, wherein the arm projects at least partially
2 beneath the lateral extension further comprising means for moving the article relative
3 to the elongated rail member.

1 55. The system of Claim 50, wherein the elongated rail member further
2 comprises two lateral extensions and two slide surfaces.

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- 1 56. The system of Claim 50, further comprising an electrification system
- 2 having at least one resilient contact configured to provide electricity from a vehicle
- 3 electrical source to the article.